

Daconil 2787 FL Fungigation Study - 1983
Hancock Turfgrass Research Center, MSU.

Establishment:

The 1983 fungigation study was established on an irrigated annual bluegrass (Poa annua) block at the Hancock Turfgrass Research Center on the Michigan State University campus.

Undiluted Daconil 2787 (FL) was injected directly into the irrigation line in the pump house at a rate of approximately 3 gallons/hr using a Hydro-Flo Chem-Injecto single piston pump. Injections were made into a line with a water capacity of 3600 gallons/hr. The fungigation treatment was applied through 4 Nelson pop-up irrigation heads, each of which was applying approximately 15 gallons/minute. This resulted in a dilution factor of approximately 1:1200. The fungicide was applied at a rate of 7 quarts/acre, the maximum label rate for fairway applications. Treatments were applied on June 13, June 27, July 11, July 19, July 26, August 16 and August 29. On August 2, Cleary 3336 FL was applied at 1 fl. oz./1000 ft² for the control of anthracnose in the plot area.

In order to provide a comparison of fungigation versus sprayer application part of the annual bluegrass study was sprayed with Daconil 2727 FL at 76 qts/acre using a CO₂ small-plot sprayer operating at 20 gallons/acre. The dilution of fungicide to water in this case was approximately 1:12.

This research area was irrigated as needed and fertilized at a total rate of 1 1/2 lb N/1000 ft² during the 1983 season.

The study was rated for dollar spot (Sclerotinia homeocarpa) incidence on July 25, August 3, August 24, and September 7.

Table 5. Daconil 2787 FL Fungigation Study - 1983. Hancock Turfgrass Research Center, MSU. Dollar spot rating scale: 1 (no disease) - 9 (90% infection or greater).

| Treatment | Rate/acre | Repetition | | | DMR ¹ | |
|--------------------------|------------|------------|----|---------|------------------|---|
| | | I | II | III AVE | | |
| Rating of July 25 | | | | | | |
| Boom sprayer application | 7 qts/acre | 2 | 2 | 2 | 2 | A |
| Fungigation application | 7 qts/acre | 4 | 5 | 5 | 4.7 | B |
| Control | - | 8 | 7 | 8 | 7.7 | C |
| Rating of August 3 | | | | | | |
| Boom sprayer application | 7 qts/acre | 1 | 1 | 1 | 1 | A |
| Fungigation application | 7 qts/acre | 3 | 4 | 4 | 3.7 | B |
| Control | - | 7 | 8 | 8 | 7.7 | C |
| Rating of August 24 | | | | | | |
| Boom sprayer application | 7 qts/acre | 1 | 1 | 1 | 1 | A |
| Fungigation application | 7 qts/acre | 1 | 1 | 1 | 1 | A |
| Control | - | 7 | 8 | 8 | 7.6 | B |
| Rating of September 7 | | | | | | |
| Boom sprayer application | 7 qts/acre | 1 | 1 | 1 | 1 | A |
| Fungigation application | 7 qts/acre | 1 | 1 | 1 | 1 | A |
| Control | - | 8 | 8 | 8 | 8 | B |

¹ Treatments followed by the same letter are not significantly different from each other at the 5% level.